In the Claims

1. (currently amended) A method for enhancing transport of a compound across a membrane of lipid bilayer, comprising forming a complex comprising the compound and an effective amount of diketopiperazine (DKP) to enhance transport, wherein transport of the compound from the proximal face of the lipid bilayer to a distal face of the lipid bilayer is increased in the presence of the DKP compared to in the absence of the DKP.

and administering the complex with a schedule resulting in substantially no increase in immune response.

- 2. (Original) The method of claim 1, wherein the lipid bilayer comprises an intact cell,
- 3. (currently amended) The method of claim [2] 1, wherein substantially no immune response is induced following contact of the cell with the complex wherein the DKP is coated with a synthetic or natural polymer.
- 4. (currently amended) The method of claim [3] 1, wherein the immune response is increased by less than 20% in the presence of DKP compared to in its absence.
- 5. (Original) The method of claim 1, wherein the compound is a biologically active agent.
- 6. (Original) The method of claim 5, wherein the biologically active agent is selected from the group consisting of insulin, an insulin precursor, Parathyroid hormone (PTH), Calcitonin, Human Growth Hormone (HgH), Glucagon-like peptides (GLP), cytokines, chemokines, and fragments thereof.

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- 7. (Original) The method of claim 5, wherein the biologically active agent is an antibody or fragment thereof.
- 8. (Original) The method of claim 1, wherein the diameter of the complex is less than 5 microns.
- 9. (Original) The method of claim 1, wherein the diameter of the complex is less than 2.5 microns.
- 10. (Original) The method of claim 1, wherein the diameter of the complex is between 1.5 and 2.5 microns.
- 11. (Original) The method of claim 3, wherein the immune response is measured by detecting an antibody, T cell proliferation, or production of a cytokine.
 - 12. (Original) The method of claim 11, wherein the cytokine is interleukin-2.
 - 13. (Original) The method of claim 1, wherein DKP does not engage a toll-like receptor.
 - 14. (Original) The method of claim 1, wherein a pulmonary tissue or cells are contacted.
- 15. (Original) The method of claim 14, wherein the pulmonary tissue comprises a small airway of the lung.
 - 16. (Original) The method of claim 14, wherein the tissue comprises alveoli.
- 17. (Original) The method of claim 14, wherein a dose of the compound is between 0.5 and 100 milligrams per administration.
- 18. (currently Amended) The method of claim 14, wherein a dose of the compound is between 500 and 1000 milligrams micrograms per administration.

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- 19. (Original) The method of claim 14, wherein a dose of the compound is between 2 and 16 milligrams per day.
- 20. (Original) The method of claim 14, wherein the molecular weight of the compound is less than 200 kDa.
- 21. (Original) The method of claim 14, wherein the molecular weight of the compound is less than 100 kDa.
- 22. (Currently Amended) The method of claim 14, wherein the molecular weight of the compound is less than 100 50 kDa.
- 23. (Original) The method of claim 14, wherein the molecular weight of the compound is between 3 and 6 kDa.
 - 24. (Original) The method of claim 14, wherein the composition is a polypeptide.
- 25. (Original) The method of claim 24, wherein the amino acid sequence of the polypeptide is identical to a naturally-occurring polypeptide expressed by a member of the species of the mammal.
- 26. (Previously Presented) The method of claim 24, wherein the polypeptide is selected from the group consisting of insulin, an insulin precursor, Parathyroid hormone (PTH), Calcitonin, Human Growth Hormone (HgH), Glucagon-like peptides (GLP), and fragments thereof.
- 27. (Original) The method of claim 24, wherein the polypeptide is an antibody or fragment thereof.

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- 28. (Original) The method of claim 14, wherein the method comprises a plurality of contacting steps.
- 29. (Original) The method of claim 28, wherein an interval of time between the contacting steps is less than 24 hours.
 - 30. (Original) The method of claim 29, wherein the interval is less than 12 hours.
 - 31. (Original) The method of claim 29, wherein the interval is less than 6 hours.
 - 32. (Original) The method of claim 29, wherein the interval is less than 3 hours.
- 33. (Original) The method of claim 28, wherein following the plurality of contacting steps, immune cells in the pulmonary tissue are non-responsive to subsequent contact with the compound.
- 34. (Original) The method of claim 1, wherein the membrane or lipid bilayer is located in a mammal.
 - 35. (Original) The method of claim 34, wherein the mammal is a human.
 - 36. (Original) The method of claim 34, wherein the complex is administered orally.
 - 37. (Canceled)